



**S/N 10/714,580**

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant:	Paul Wentworth et al.	Examiner:	Unknown
Serial No.:	10/714,580	Group Art Unit:	1645
Filed:	November 14, 2003	Docket:	1361.027US1
Title:	ANTIMICROBIAL ACTIVITY OF ANTIBODIES		

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**COMMUNICATION CONCERNING RELATED APPLICATION(S)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Applicants would like to bring to the Examiner's attention the following related application(s) in the above-identified patent application:

<u>Serial/Patent No.</u>	<u>Filing Date/Issue Date</u>	<u>Attorney Docket</u>	<u>Title</u>
10/380905	March 17, 2003	1361.012US1	METHODS AND COMPOSITIONS RELATING TO HYDROGEN PEROXIDE AND SUPEROXIDE PRODUCTION BY ANTIBODIES
10/714567	November 14, 2003	1361.028US1	ANTIBODY MEDIATED OZONE GENERATION

Continuations and divisionals may be later filed on the cases listed above, or cited to the Examiner in any previous Communication Concerning Related Applications. Applicants request that the Examiner review all continuations and divisionals of the above-listed or previously-cited patent applications before allowing the claims of the present patent application.

COMMUNICATION CONCERNING RELATED APPLICATIONS

Serial Number: 10/714,580

Filing Date: November 14, 2003

Title: ANTIMICROBIAL ACTIVITY OF ANTIBODIES

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Dkt: 1361.027US1



Respectfully submitted,

PAUL WENTWORTH ET AL.

By Applicants' Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

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Minneapolis, MN 55402

(516) 795-6820

Date July 11, 2005

By

Robin A. Chadwick

Reg. No. 36,477

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 12 day of July, 2005.

CANDIS BUENDING

Name

Signature

S/N 10/714,580



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Paul Wentworth et al.	Examiner:	Unknown
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INFORMATION DISCLOSURE STATEMENT

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicant respectfully requeststhat this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicant requests that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicant with the next official communication.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Information Disclosure Statement considered.

Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications are no longer required to be provided to the Office. Notification of this change was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004. Thus, Applicant has not included copies of any US Patents or Published Applications cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's below-signed representative. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

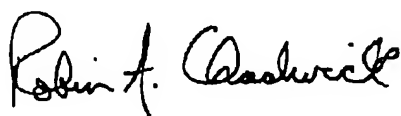
The Examiner is invited to contact Applicant's Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

PAUL WENTWORTH ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
P.O. Box 2938  
Minneapolis, MN 55402  
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CANDIS BUENDING

\_\_\_\_\_  
Name

  
\_\_\_\_\_  
Signature

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Complete if Known

Application Number 10/714,580

Filing Date November 14, 2003

First Named Inventor Wentworth, Paul

Group Art Unit 1645

Examiner Name Unknown

Sheet 1 of 6

Attorney Docket No: 1361.027US1

**US PATENT DOCUMENTS**

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate
	US-4,559,157	12/17/1985	Smith, J. A., et al.	04/21/1983
	US-4,608,392	08/26/1986	Jacquet, B., et al.	08/28/1984
	US-4,684,521	08/04/1987	Edelson, R. L.	06/21/1985
	US-4,820,508	04/11/1989	Wortzman, M. S.	06/23/1987
	US-4,988,616	01/29/1991	Heidenreich, H., et al.	01/24/1989
	US-4,992,478	02/12/1991	Geria, N. M.	04/04/1988
	US-5,162,217	11/10/1992	Hartman, J R., et al.	12/08/1989
	US-5,362,492	11/08/1994	Schuetzler, A., et al.	02/25/1993
	US-5,472,691	12/05/1995	Marklund, S., et al.	09/24/1993
	US-5,599,712	02/04/1997	Greenberger, J. S.	10/15/1993
	US-5,637,315	06/10/1997	Zern, M., et al.	12/02/1994
	US-5,647,315	07/15/1997	Saito, T.	10/04/1995
	US-5,747,026	05/05/1998	Crapo, J. D., et al.	02/02/1994
	US-5,750,351	05/12/1998	Medford, R. M., et al.	06/07/1995
	US-5,773,209	06/30/1998	Medford, R. M., et al.	06/07/1995
	US-5,811,449	09/22/1998	Medford, R. M., et al.	06/07/1995
	US-5,846,959	12/08/1998	Medford, R. M., et al.	06/06/1995
	US-5,848,290	12/08/1998	Yoshida, S., et al.	02/16/1996
	US-5,994,339	11/30/1999	Crapo, J. D.	06/07/1995
	US-6,080,385	06/27/2000	Clark, J. F., et al.	10/19/1998
	US-6,346,547	02/12/2002	Tzodikov, N.	02/08/2000
	US-6,610,310	08/26/2003	Hilgers, L.	06/11/1999

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T <sup>2</sup>
	WO-98/25645A1	06/18/1998	Wolpert, E., et al.	
	WO-03/017992A2	03/06/2003	Petyaev, I.	

**OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		ALLEN, R C., et al., "The Superoxide Anion and Singlet Molecular Oxygen: Their Role in the Microbicidal Activity of the Polymorphonuclear Leukocyte", Biochemical & Biophysical Research Communications, 60(3), (October 8, 1974), 909-917	
		ARLAUD, G. J., et al., "A Functional Model of the Human C1 Complex : Emergence of a Functional Model", Immunology Today, 8(4), (1987), 106-111	
		BAEK, J. M., et al., "Nucleotide Sequence of a cDNA Encoding Soybean Bowman-Birk Proteinase Inhibitor", Plant Physiology, 102(2), (1993), 687	

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 6

Complete if Known

<b>Application Number</b>	10/714,580
<b>Filing Date</b>	November 14, 2003
<b>First Named Inventor</b>	Wentworth, Paul
<b>Group Art Unit</b>	1645
<b>Examiner Name</b>	Unknown

Attorney Docket No: 1361.027US1

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		BEAUCHAMP, C., et al., "Superoxide Dismutase: Improved Assays and an Assay Applicable to Acrylamide Gels", <u>Analytical Biochemistry</u> , 44(1), (1971), 276-287	
		BENT, D V., et al., "Excited State Chemistry of Aromatic Amino Acids and Related Peptides. III. Tryptophan", <u>Journal of the American Chemical Society</u> , 97(10), (1975), 2612-2619	
		BERTHIAUME, F., et al., "Antibody-Targeted Photolysis of Bacteria <i>in Vivo</i> ", <u>Bio/Technology</u> , 12(7), (1994), 703-706	
		BLACKBURN, G M., et al., "Catalytic Antibodies", <u>Advances in Physical Organic Chemistry</u> , 31, (1998), 249-392	
		BRÜNGER, A T., et al., "Crystallography & NMR System: A New Software Suite for Macromolecular Structure Determination.", <u>Acta Crystallographica Section D-Biological Crystallography</u> , 54 ( Pt 5), (1998), 905-921	
		BURLEY, S. K., et al., "Aromatic-Aromatic Interaction: a Mechanism of Protein Structure Stabilization", <u>Science</u> , 229(4708), (1985), 23-28	
		BURTON, D R., "Antibody: the Flexible Adaptor Molecule", <u>Trends in Biochemical Sciences</u> , 15(2), (1990), 64-69	
		CACACE, F , et al., "Experimental Detection of Hydrogen Trioxide", <u>Science</u> , 285(5424), (1999), 81-82	
		CANNAC-CAFFREY, V., et al., "The Protein Sequence of an Archaeal Catalase-Peroxidase", <u>Biochimie</u> , 80(12), (1998), 1003-1011	
		CERKOVNIK, JANEZ , et al., "Characterization and Reactivity of Hydrogen Trioxide (HOOH): A Reactive Intermediate Formed in the Low-Temperature Ozonation of 2-Ethylanthrahydroquinone", <u>Journal of the American Chemical Society</u> , 115(25), (1993), 12169-12170	
		COREY, E J., et al., "Generation of <sup>1</sup> Δ <sub>g</sub> O <sub>2</sub> from Triethylsilane and Ozone", <u>Journal of the American Chemical Society</u> , 108(9), (April 30, 1986), 2472 - 2473	
		DEBY, C., "La Biochimie De L'Oxygene", <u>La Recherche</u> , 228, (1991), 57-64	
		DETTY, M. R., et al., "Tellurapyrylium Dyes as Catalysts for the Conversion of Singlet Oxygen and Water to Hydrogen Peroxide", <u>Journal of the American Chemical Society</u> , 112(10), (1990), 4086-4088	
		DRAPER, H. H., et al., "A Comparative Evaluation of Thiobarbituric Acid Methods for the Determination of Malondialdehyde in Biological Materials", <u>Free Radical Biology &amp; Medicine</u> , 15(4), (1993), 353-363	
		ESNOUF, R. M., "Further Additions to MolScript Version 1.4, Including Reading and Contouring of Electron Density Maps", <u>Acta Crystallographica Section D-Biological Crystallography</u> , 55(4), (1999), 938-940	
		FEE, J. A., et al., "Is Superoxide Toxic and Are Superoxide Dismutases Essential for Aerobic Life?", In: <u>Oxygen and Oxy-Radicals in Chemistry and Biology</u> , Rodgers, M. A., et al, Editors, (Academic Press, New York, NY, 1980), 205-239	

EXAMINER

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Substitute Disclosure Statement Form (PTO-1449)

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached

Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)	Complete if Known	
	Application Number	10/714,580
	Filing Date	November 14, 2003
	First Named Inventor	Wentworth, Paul
	Group Art Unit	1645
	Examiner Name	Unknown
Sheet 3 of 6	Attorney Docket No: 1361.027US1	

## OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		FELDHOF, R C., et al., "Determination of the Number and Relative Position of Tryptophan Residues in Various Albumins", <u>Biochemical Journal</u> , 159(3), (1976), 529-33	
		FOOTE, C. S., "Chapter 3 - Photosensitized Oxidation and Singlet Oxygen: Consequences in Biological Systems", In: <u>Free Radicals in Biology</u> , Vol. II, Pryor, W. A., Editor (Academic Press, New York, NY, 1976), 85-133	
		FOOTE, C S., "Mechanisms of Photosensitized Oxidation. There are several different types of photosensitized oxidation which may be important in biological systems", <u>Science</u> , 162(857), (1968), 963-970	
		FOOTE, C S., et al., "Phototosensitized Oxygenations and the Role of Singlet Oxygen", <u>Acc. Chem. Res.</u> , 1(4), (1969), 104-110	
		FOWLER, A V., et al., "Amino Acid Sequence of $\beta$ -Galactosidase. XI. Peptide Ordering Procedures and the Complete Sequence", <u>Journal of Biological Chemistry</u> , 253(15), (1978), 5521-5525	
		FRIMER, A. A., In: <u>Singlet O<sub>2</sub></u> , (CRC Press, Boca Raton, FL, 1985), 91-143	
		GARCIA, K C., et al., "An $\alpha\beta$ T Cell Receptor Structure at 2.5 Å and Its Orientation in the TCR-MHC Complex", <u>Science</u> , 274(5285), (1996), 209-219	
		GOLLNICK, K , "Type II Photooxygenation Reactions in Solution", <u>Advances in Photochemistry</u> , 6, (1968), 1-122	
		GREELEY, B. H., et al., "New Pseudospectral Algorithms for Electronic Structure Calculations: Length Scale Separation and Analytical Two-Electron Integral Corrections", <u>The Journal of Chemical Physics</u> , 101(5), ( 1994), 4028-4041	
		GROSSWEINER, L. I., "Photochemical Inactivation of Enzymes", <u>Current Topics in Radiation Research Quarterly</u> , 11(2), (1976), 141-199	
		HAN, J., et al., "Quantitation of Hydrogen Peroxide Using Tris(2-carboxyethyl)phosphine", <u>Analytical Biochemistry</u> , 234(1), (1996), 107-109	
		HASTY, N., et al., "Role of Azide in Singlet Oxygen Reactions: Reaction of Azide with Singlet Oxygen", <u>Tetrahedron Letters</u> , 13(1), (1972), 49-52	
		HOFMAN, P., et al., "Increased <i>Escherichia coli</i> Phagocytosis in Neutrophils That Have Transmigrated Across a Cultured Intestinal Epithelium", <u>Infection &amp; Immunity</u> , 68(2), (2000), 449-455	
		JOSCHEK, H., et al., "Optical Generation of Hydrated Electrons From Aromatic Compounds", <u>Journal of the American Chemical Society</u> , 88(14), (1966), 3261-3268	
		KANOFISKY, J. R., "Singlet Oxygen Production by Biological Systems", <u>Chemico-Biological Interactions</u> , 70(1-2), (1989), 1-28	
		KANOFISKY, J R., et al., "Singlet Oxygen Production by Human Eosinophils", <u>Journal of Biological Chemistry</u> , 263(20), (1988), 9692-9896	
		KEARNS, D. R., "Physical and Chemical Properties of Singlet Molecular Oxygen", <u>Chem. Rev.</u> , 71(4), (1971), 395-427	

EXAMINER

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Substitute Disclosure Statement Form (PTO-1449)

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Substitute for form 1449A/PTO

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(Use as many sheets as necessary)

Complete if Known

**Application Number** 10/714,580**Filing Date** November 14, 2003**First Named Inventor** Wentworth, Paul**Group Art Unit** 1645**Examiner Name** Unknown

Sheet 4 of 6

**Attorney Docket No:** 1361.027US1**OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		KLEBANOFF, S. J., "Microbicidal Mechanisms, Oxygen Dependent", <u>In: Encyclopedia of immunology, Peter J. Delves - Editor, San Diego : Academic Press, (1998), 1713-1718</u>	
		KOLLER, J., et al., "Mechanism of the Participation of Water in the Decomposition of Hydrogen Trioxide (HOOH). A Theoretical Study", <u>Journal of the American Chemical Society, 118(10), (1996), 2470-2472</u>	
		KREITNER, M., et al., "A Quantitative Determination of Singlet Oxygen With Horseradish Peroxidase", <u>Analytical Biochemistry, 213(1), (1993), 63-67</u>	
		LI, T., et al., "Remarkable Ability of Different Antibody Catalysts To Control and Diversify the Product Outcome of Cationic Cyclization Reactions", <u>Journal of the American Chemical Society, 117(11), (1995), 3308-3309</u>	
		MARKERT, M., et al., "Measurement of O <sub>2</sub> Production by Human Neutrophils. The Preparation and Assay of NADPH Oxidase-Containing Particles from Human Neutrophils", <u>Methods in Enzymology, 105, (1984), 358-65</u>	
		MARTIN, A. C., "Accessing the Kabat Antibody Sequence Database by Computer", <u>Proteins: Structure, Function, &amp; Genetics, 25(1), (1996), 130-133</u>	
		MCCORMICK, J. P., et al., "Near-Ultraviolet Photooxidation of Tryptophan. Proof of Formation of Superoxide Ion", <u>Journal of the American Chemical Society, 100(1), (1978), 312-313</u>	
		MERKEL, P. B., et al., "Deuterium Effects on Singlet Oxygen Lifetimes in Solutions. New Test of Singlet Oxygen Reactions", <u>Journal of the American Chemical Society, 94(3), (February 9, 1972), 1030-1031</u>	
		MICHAELI, A., et al., "Reactivity of Singlet Oxygen Toward Amino Acids and Peptides", <u>Photochemistry &amp; Photobiology, 59(3), (1994), 284-289</u>	
		PLESNIČAR, B., et al., "17 O NMR Spectroscopic Characterization and the Mechanism of Formation of Alkyl Hydrotrioxides (ROOOH) and Hydrogen Trioxide (HOOH) in the Low-Temperature Ozonation of Isopropyl Alcohol and Isopropyl Methyl Ether: Water-Assisted Decomposition", <u>Chemistry - A European Journal, 6(5), (2000), 809-819</u>	
		PRANGE, T., et al., "Exploring Hydrophobic Sites in Proteins with Xenon or Krypton", <u>Proteins: Structure, Function, &amp; Genetics, 30(1), (1998), 61-73</u>	
		REEVES, E P., et al., "Killing Activity of Neutrophils is Mediated Through Activation of Proteases by K <sup>+</sup> Flux", <u>Nature, 416(6878), (2002), 291-297</u>	
		SCHARF, H. D., et al., "The Catalytic Function of Anthraquinones in the Photooxidation of Chloride to Chlorine", <u>Jerusalem Symp. Quantum Chem. Biochem., 12, (1979), 355-365</u>	
		SCHOENBORN, B. P., "Binding of Xenon to Sperm Whale Myoglobin", <u>Nature, 207(992), (1965), 28-30</u>	
		SCOTT, E. E., et al., "Ligand Migration in Sperm Whale Myoglobin", <u>Biochemistry, 36(39), (1997), 11909-11917</u>	

**EXAMINER****DATE CONSIDERED**

Substitute Disclosure Statement Form (PTO-1449)

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Sheet 5 of 6

Attorney Docket No: 1361.027US1

**OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS**

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		SIEGFRIED, L., et al., "Virulence-Associated Factors in <i>Escherichia coli</i> Strains Isolated from Children With Urinary Tract Infections", <u>Journal of Medical Microbiology</u> , 41(2), (1994), 127-32	
		SIM, R B., et al., "C1: Molecular Interactions With Activating Systems", <u>Immunology Today</u> , 12(9), (1991), 307-311	
		SKEPPER, J. N., et al., "Cytochemical Demonstration of Sites of Hydrogen Peroxide Generation and Increased Vascular Permeability in Isolated Pig Hearts after Ischaemia and Reperfusion", <u>Microscopy Research &amp; Technique</u> , 42(5), (1998), 369-85	
		SOLTIS, S M., et al., "Successful Flash-Cooling of Xenon-Derivatized Myoglobin Crystals", <u>J. Appl. Cryst.</u> , 30, (1997), 190-194	
		SRINIVASAN, V. S., et al., "Photochemical Generation of Superoxide ion (O <sub>2</sub> <sup>-</sup> by Rose Bengal and Ru(bpy) <sub>3</sub> <sup>2+</sup> ", <u>Journal of the American Chemical Society</u> , 100(20), (September 27, 1978), 6513-6515	
		STEINBECK, M. J., et al., "Extracellular Production of Singlet Oxygen by Stimulated Macrophages Quantified Using 9,10-Diphenylanthracene and Perylene in a Polystyrene Film", <u>Journal of Biological Chemistry</u> , 268(21), (1993), 15649-15654	
		STEINBECK, M. J., "Intracellular Singlet Oxygen Generation by Phagocytosing Neutrophils in Response to Particles Coated With a Chemical Trap", <u>The Journal of Biological Chemistry</u> , 267(19), (1992), 13425-13433	
		STRONG, L., et al., "Antibody-Targeted Photolysis - Photophysical, Biochemical, and Pharmacokinetic Properties of Antibacterial Conjugates", <u>Annals New York Academy of Sciences</u> , 745, (1994), 297-320	
		TAKEUCHI, K., "Continuous Measurement of Ozone in Air by Chemiluminescence Using Indigo-5 5'-Disulfonate", <u>Analytica Chimica Acta</u> , 230(1), (1990), 183-187	
		TAKEUCHI, K., "Quantitative Determination of Aqueous-Phase Ozone by Chemiluminescence Using Indigo-5,5'-Disulfonate", <u>Analytical Chemistry</u> , 61(6), (1989), 619-623	
		TILTON JR., R F., et al., "Protein-Ligand Dynamics. A 96 Picosecond Simulation of a Myoglobin-Xenon Complex", <u>Journal of Molecular Biology</u> , 199(1), (1988), 195-211	
		VINCENT, M A., et al., "Structures on the Singlet and Triplet O <sub>3</sub> H <sub>2</sub> Potential Energy Surfaces: Implications for Photonucleation of Water in the Presence of Molecular Oxygen", <u>Journal of Physical Chemistry</u> , 99(10), (1995), 3109-3113	
		VOSS, R H., et al., "Crystal Structure of the Bifunctional Soybean Bowman-Birk Inhibitor at 0.28-nm Resolution - Structural Peculiarities in a Folded Protein Conformation", <u>European Journal of Biochemistry</u> , 242(1), (1996), 122-131	

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Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)	Complete if Known	
	<b>Application Number</b>	10/714,580
	<b>Filing Date</b>	November 14, 2003
	<b>First Named Inventor</b>	Wentworth, Paul
	<b>Group Art Unit</b>	1645
	<b>Examiner Name</b>	Unknown
Sheet 6 of 6	Attorney Docket No: 1361.027US1	

## OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		WAGNER, J., et al., "Efficient Aldolase Catalytic Antibodies That Use the Enamine Mechanism of Natural Enzymes", <u>Science</u> , 270(5243), (1995), 1797-1800	
		WALRANT, P., et al., "N-Formyl-Kynurenine, a Tryptophan Photooxidation Product, as a Photodynamic Sensitizer", <u>Photochemistry &amp; Photobiology</u> , 19(6), (1974), 411-417	
		WELINDER, K G., et al., "Amino Acid Sequences and Structures of Chicken and Turkey Beta 2-Microglobulin", <u>Immunology</u> , 28(1-2), (1991), 177-182	
		WENTWORTH, A. D., et al., "Antibodies Have the Intrinsic Capacity to Destroy Antigens", <u>Proceedings of the National Academy of Sciences of the United States of America</u> , 97(20), (2000), 10930-10935	
		WENTWORTH JR., P., et al., "Antibody Catalysis of the Oxidation of Water", <u>Science</u> , 293(5536), (2001), 1806-1811	
		WENTWORTH JR., P., "Catalytic Antibodies", <u>Current Opinion in Chemical Biology</u> , 2(1), (1998), 138-144	
		WENTWORTH JR., P., "Antibody design by Man and Nature", <u>Science</u> , 296(5576), (2002), 2247-2249	
		WILKINSON, F., et al., "Rate Constants for the Decay and Reactions of the Lowest Electronically Excited Singlet State of Molecular Oxygen in Solution. An Expanded and Revised Compilation", (Abstract and Contents), <u>J. Phys. Chem. Ref. Data</u> , 24, (1995), 663-664	
		WINKLER, J. R., et al., "Electron Tunneling in Biological Molecules", <u>Pure &amp; Applied Chemistry</u> , 71(9), (1999), 1753-1764	
		WINKLER, J. R., "Electron Tunneling Pathways in Proteins", <u>Current Opinion in Chemical Biology</u> , 4(2), (2000), 192-198	
		ZHAI, X., et al., "Direct Detection and Quantification of Singlet Oxygen During Ischemia and Reperfusion in Rat Hearts", <u>American Journal of Physiology</u> , 269(4 Pt 2), (October 1995), H1229-H1236	
		ZHOU, M., et al., "A Stable Nonfluorescent Derivative of Resorufin for the Fluorometric Determination of Trace Hydrogen Peroxide: Applications in Detecting the Activity of Phagocyte NADPH Oxidase and Other Oxidases", <u>Analytical Biochemistry</u> , 253(2), (November 15, 1997), 162-168	

EXAMINER

DATE CONSIDERED